

09/483,399

T124/TELNP200US

THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Previously presented) A communication unit in a cellular communication system, the unit comprising:
 - a transmitter that transmits data over an RF link; and
 - a power control module coupled to the transmitter, the power control module receives a data packet having a first portion and a second portion and transmits the first portion at a first transmission power and the second portion at a second transmission power, the communication unit transmits the first portion of the data packet at a first data rate and the second portion of the data packet at a second data rate.
3. (Previously presented) The unit of claim 2, wherein the first transmission power and the second transmission power are selected so that the first portion and the second portion have similar transmission ranges.
4. (Previously presented) The unit of claim 2, wherein the data packet includes a third portion and the power adjustment module receives the data packet having the third portion and transmits the third portion at a third transmission power.
5. (Original) The unit of claim 4, wherein the communication unit transmits the first portion of the data packet at a first data rate, the second portion of the data packet at a second data rate and the third portion of the data packet at a third data rate.

09/483,399

T124/TELNP200US

6. (Original) The unit of claim 5, wherein the data packet conforms to the IEEE 802.11 standard protocol and the first portion of the data packet is a PLCP preamble, the second portion of the data packet is a PLCP header and the third portion of the data packet is a data portion.
7. (Previously presented) The unit of claim 2, wherein the communication unit is an access point system.
8. (Previously presented) The unit of claim 2, wherein the communication unit is a mobile communication unit.
9. (Previously presented) The unit of claim 2, wherein the power control module includes a transmission power amplifier adapted to receive the power data packet and dynamically control the transmission power of the first portion and the second portion.
10. (Previously presented) The unit of claim 9, wherein the power control module includes a D/A converter that receives power data information in digital format and converts the power data information to an analog control signal, the analog signal controls the transmission power of the transmission power amplifier.
11. (Previously presented) The unit of claim 10, further including a processor coupled to the D/A converter, the processor transmits the power data information to the D/A converter.
12. (Previously presented) The unit of claim 11, further including a receiver coupled to the processor, the receiver receives a transmission from other communication units.
13. (Previously presented) The unit of claim 12, wherein the receiver provides transmission power information to the processor from a transmission communication unit transmitting information to the receiver, the processor evaluating a range from the transmission power information and downloading power data information to the power control circuit based on a desired transmission range of the data packet.

09/483,399

T124/TELNP200US

14. (Previously presented) The unit of claim 10, wherein the power control module includes a power data register section coupled to the D/A converter, the power data register module stores the power data information and provides the power data information to the D/A converter.

15. (Previously presented) The unit of claim 14, further including a processor coupled to the power data register section, the processor transmits the power data information to the power data register section.

16. (Previously presented) The unit of claim 15, further including a receiver coupled to the processor, the receiver receives a transmission from other communication units.

17. (Previously presented) The unit of claim 16, wherein the receiver provides transmission power information to the processor from a transmission communication unit transmitting information to the receiver, the processor evaluating a range from the transmission power information and downloading power data information to the power control circuit based on a desired transmission range of the data packet.

18. (Previously presented) The unit of claim 2, wherein the communication unit is coupled to a network and the network provides the power control circuit with information relating to the power transmission level of the first portion and the second portion.

19. (Cancelled)

20. (Previously presented) A method of transmitting a data packet in a cellular communication system, comprising:

- transmitting a first portion of the data packet at a first transmission power level;
- transmitting a second portion of the data packet at a second transmission power level; and
- transmitting a third portion of the data packet at a third transmission power level.

09/483,399

T124/TELNP200US

21. (Previously presented) The method of claim 20, wherein the first portion of the data packet is transmitted at a first data rate and the second portion of the data packet is transmitted at a second data rate.
22. (Previously presented) The method of claim 20, wherein the first power level and the second power level are adjusted so that the first portion and the second portion have essentially the same transmission range.
23. (Previously presented) The method of claim 20, wherein providing a communication unit precedes transmitting a first portion of the data packet at a first transmission power level, the communication unit including a transmitter, a power control module coupled to the transmitter, a processor coupled to the power control module and a receiver coupled to the processor.
24. (Previously presented) The method of claim 23, wherein the processor provides the power control module with the first transmission power and the second transmission power after providing a communication unit and prior to transmitting a first portion of the data packet at a first transmission power level.
25. (Original) The method of claim 24, wherein the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the data packet.
26. (Original) The method of claim 25, wherein the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the data packet based on a transmission power level of a transmission received from another mobile communication unit.
27. (Original) The method of claim 25, wherein the communication unit is coupled to a network and the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the

09/483,399

T124/TELNP200US

data packet, the network providing the processor information relating to the desired transmission range.

28. (Previously presented) The method of claim 20, wherein the power level of the first portion and the second portion is dynamically adjusted during the transmission of the data packet.

29. (Previously presented) An access point system in a cellular communication system utilizing an IEEE 802.11 standard protocol, comprising:

a transmitter that transmits data over an RF link;

a power control module coupled to the transmitter, the power control module receives a data packet having a PLCP preamble and PLCP header portion and a data portion and dynamically adjusts the transmission power of the packet during transmission of the packet, such that the PLCP preamble portion begins transmitting at a first transmission power level and the data portion begins transmitting at a second transmission power level, the dynamic adjustment of transmission power made to facilitate transmitting the PLCP preamble and the data portion over a substantially similar transmission range;

a processor coupled to the power adjustment module, the processor provides power adjustment information to the power control module; and

a receiver coupled to the processor, the receiver receives data over an RF link wherein the access point system is coupled to a network.

30. (Previously presented) The system of claim 29, wherein the power control module includes a transmission power amplifier that receives the data packet and control the transmission power of the PLCP preamble portion and the data portion, the transmission power amplifier coupled to a D/A converter, the D/A converter receives power data information in digital format and converts the power data information to an analog control signal, the analog control signal controls the transmission power of the transmission power amplifier.

31. (Previously presented) The system of claim 30, wherein the power control module includes a power data register module coupled to the D/A converter, the power data register

09/483,399

T124/TELNP200US

stores the power data information and provides the power data information to the D/A converter wherein the processor is coupled to the D/A converter, the processor transmits the power data information to the D/A converter.

32. (Previously presented) A cellular communication system, comprising:
means for transmitting a data packet having a first portion and a second portion;
means for dynamically adjusting the transmission power level of the first portion with respect to the second portion of the data packet coupled to the means for transmitting a data packet having a first portion and a second portion; and
means for determining the transmission power levels of the first and second portion based on a desired transmission range for both the first and second portion.

33. (Cancelled)

34. (Original) The system of claim 32, wherein the means for dynamically adjusting the transmission power level of the first portion with respect to the second portion of the data packet further provides for adjusting the power transmission level of a third portion of the data packet with respect to the first and second portions.

35. (Previously presented) A signal transmitted over a wireless communication system, the signal comprising:
a data packet having a first portion transmitted at a first power level, a second portion transmitted at a second power level, and a third portion transmitted at a third power level.